

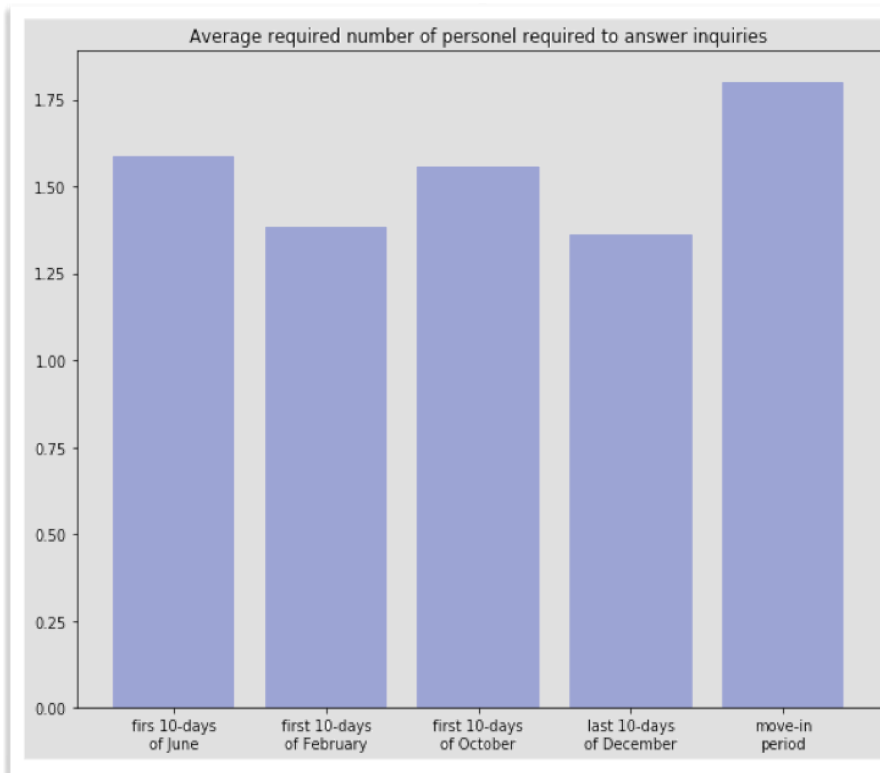
College Move-In Week

Objective

Move-in week is often chaotic and a generally unpleasant experience for both, college students and local residents. Despite universities' attempts to mitigate trouble, the sudden influx of over 30,000 students presents difficulties for the city and its inhabitants. In this project, we attempt to identify factors affecting residents' quality of life as a result of move-in week.

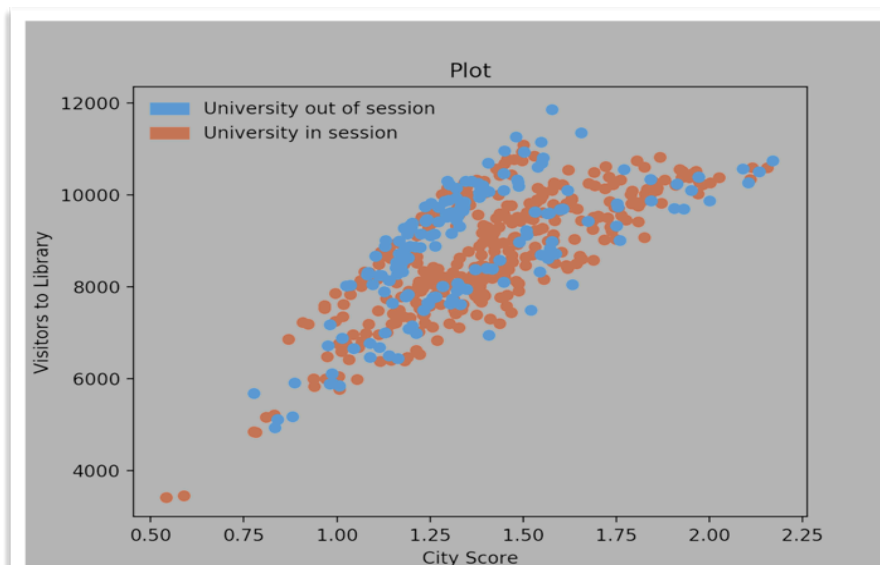
311 Service Requests

- We found that both number of requests and dispatchers increases significantly during the move in period.
- Number of requests increases with 47% and number of dispatchers increase with 17%.
- Assuming that the number of service providers is normally distributed, the p-value of such an increase is 0.049.



Public Library Attendance

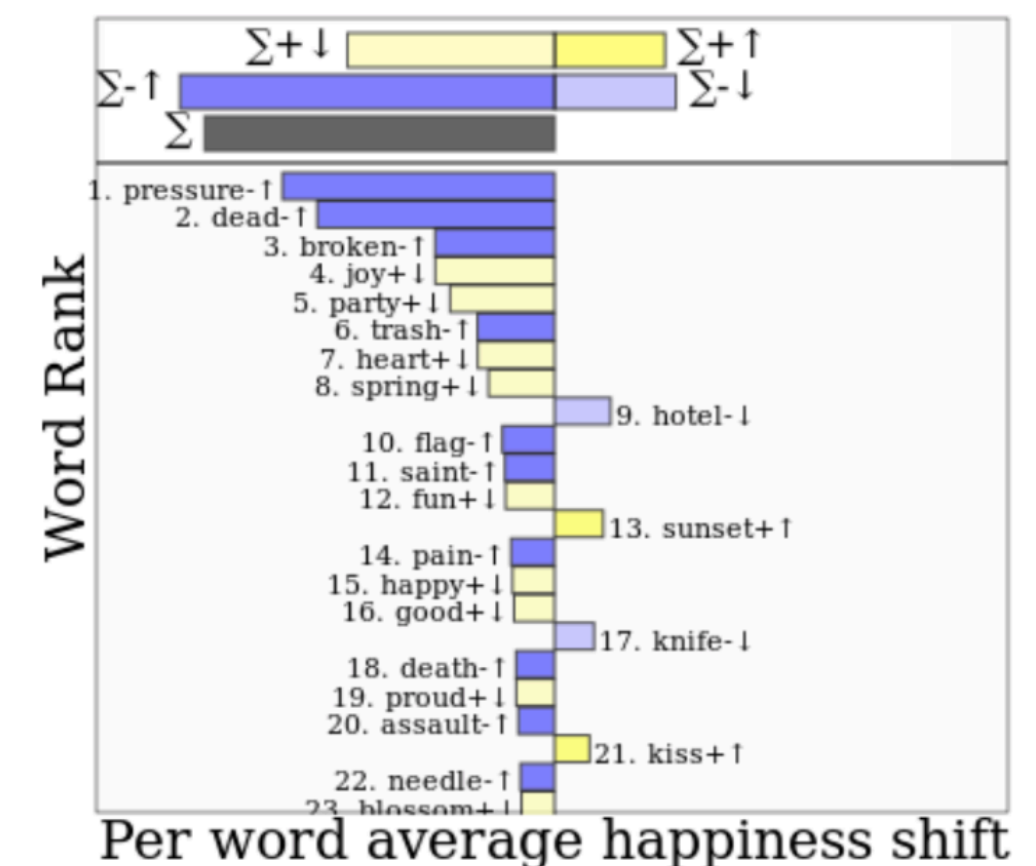
- Our method was analyzing the correlation between library attendance and city score during both the school session and not.
- During the time that students are not in session, the correlation coefficient is 0.36, while in session it is 0.75.



Twitter Sentiment Analysis

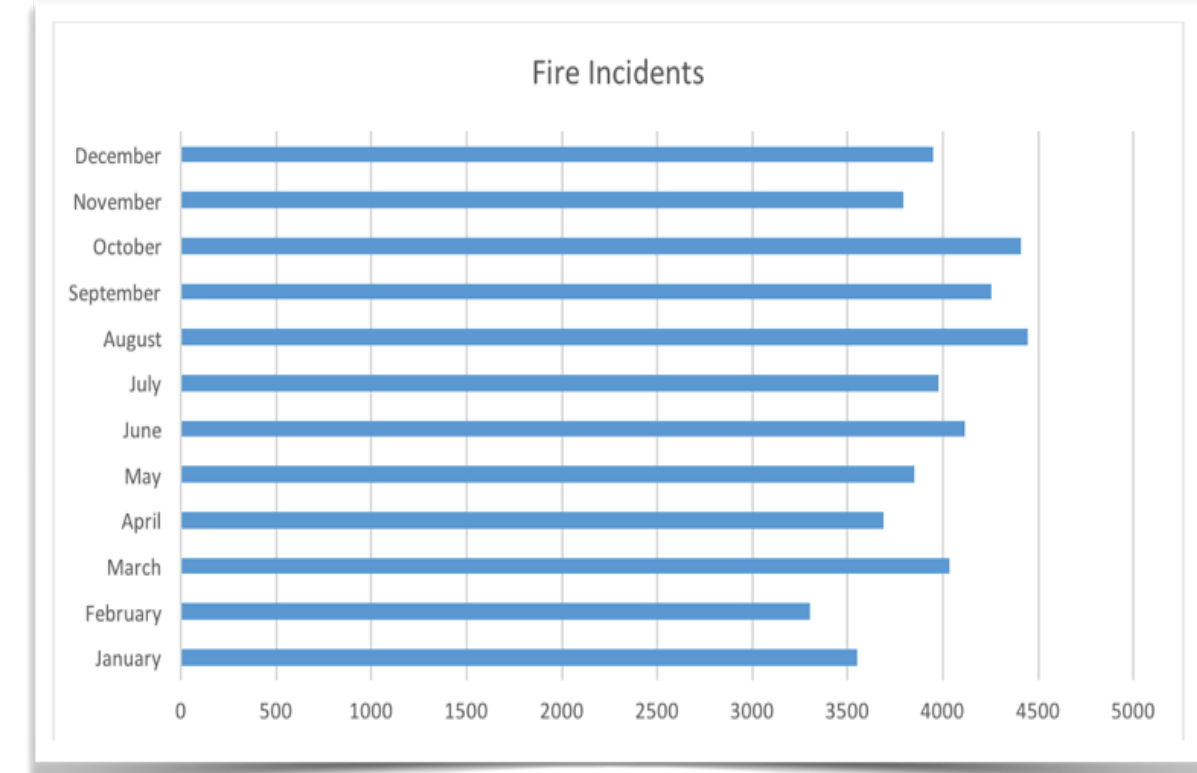
- Scraped Twitter posts reveals region specific levels of happiness.
- We compared twitter posts about Boston using a metric to compare change in sentiment.
- Our metric was determined by the aggregated "word shift" between two texts.
- Where word shift of a word w is defined as: the change in frequency and conveyed sentiment of w .
- Our results show that move in week poses a significant negative effect on the residents of Boston.

Reference week 4-16-2016 to 4-27-2016 happiness: 6.83
 Move-in week: 8-23-2016 to 9-10-2016 happiness: 6.66
 Why Move-In Week is less happy than the Reference Week:



Fire Incidents

- The average number of fire incidents for all the months is 3,947.25 incidents.
- For the months of August and September the average is 4,351.5 fire incidents.
- This shows an increase of approximately 10% for the move-in months.



Conclusion

- Our analysis indicates that quality of life for Boston residents is reduced by the move-in week.
- Happiness is admittedly subjective and self-reported, but we are confident that our approach provides an indication of happiness for the population as a whole.